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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/666,283	09/21/2000	Sung Bae Jun	CIT/ K-130	8473
34610	7590	03/21/2005	EXAMINER	
FLESHNER & KIM, LLP			BUI, KIEU OANH T	
P.O. BOX 221200			ART UNIT	
CHANTILLY, VA 20153			PAPER NUMBER	
			2611	

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/666,283	<b>Applicant(s)</b> JUN ET AL.	
	<b>Examiner</b> KIEU-OANH T BUI	<b>Art Unit</b> 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 September 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 12 and 14-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12, 14-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Remarks*

1. Claims 1-11 and 13 were canceled. New claims 23-33 are added. Pending claims are 12, and 14-33.

### *Response to Arguments*

2. Applicant's arguments with respect to claims 12, and 14-33 have been considered but are moot in view of the new ground(s) of rejection (with the revised action in response to each newly amended and new claims).

### *Claim Rejections - 35 USC 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*A person shall be entitled to a patent unless --  
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.*

4. Claims 12, and 14-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Hoffert et al. (U.S. Patent No. 5,903,892/ or "Hoffert" hereinafter).

Regarding claim 12, Hoffert discloses "a method of browsing a video using information on semantic relations between segments of a multimedia stream characterized by a video browsing interface including a video display view and a key frame or a key region view, the method comprising: displaying the information on associate meanings between segments by the video browsing interface further including key frames or key regions or text for displaying information on semantic relations between the segments; and performing a video browsing by using key frames or key regions or text displaying the information on semantic relations between

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segments”, i.e., a media index is creating based on predetermined semantic relations or context relations between segments using the contents of the multimedia stream for the constructing information occurred (see Figs. 2B & 2C, and col. 6/lines 20-55 & col. 7/line 11 for the contents of video and audio based on content attributes of media objects and associate relevant data; and Figs. 4A & 4B for performing a video browsing by using key frames or key regions or text displaying the information on associate meanings between segments). In addition, Hoffert discloses “wherein the information on semantic relations between segments is an information on cause/effect or abstract/detail relationship”, i.e., semantic relations between segments regarding as context relations between segments are disclosed by Hoffert as Hoffert shows a plurality of attributes on cause/effect or on abstract/detail (context relations between segments) as relevant lexical content information related to media file for the user to have a meaningful database to search (col. 4/line 52 to col. 5/line 42 & col. 6/lines 20-46; and col. 7/line 52 to col. 8/line 8 for each data object with content relations based on a plurality of attributes).

(Claim 13 is canceled).

As for claim 14, in further view of claim 12, Hoffert discloses “wherein a user can select a case as to whether to shift to a frame corresponding to the selection region or to a segment represented by the selected region, or to a cause segment of the corresponding segment or to an effect segment or to an abstract segment or to a result segment, if the user selects a predetermined display region of the key frame or the key region view” (Figs. 4A & 4B for performing a video browsing by using key frames or key regions or text displaying the information on associate meanings between segments on any segments selected by the user, see more details on col. 21/line 55 to col. 24/line 13).

As for claims 15 and 17, in further view of claim 12, Hoffert further suggests “wherein each segment is expressed by a node, and the relationship between the segments is expressed by a link in a region displaying the information on semantic relations between segments” and “wherein the corresponding node and the link are displayed in a graphic structure in the region displaying the information on semantic relations between segments” (Fig. 3A as attribute segments as nodes are linked together based on their relationship as a link in a graphic structure as stated).

As for claim 16, in further view of claim 15, Hoffert shows “wherein each node is expressed by using the key frame, the key region or a text in the region displaying the information on semantic relations between segments” (Figs. 4A & 4B for performing a video browsing by using key frames or key regions or text displaying the information on associate meanings between segments on any segments selected by the user, see more details on col. 21/line 55 to col. 24/line 13).

As for claim 18, in further view of claim 15, Hoffert shows “wherein the corresponding node and the link are displayed in a tree structure in the region displaying the information on semantic relations between segments” (attribute segments as nodes are linked together based on their semantic relationship as a link in a tree structure as in col. 7/lines 28 to col. 8/line 11 for a database with attributes are linked together based on tags, indexing, keywords, textual annotations, text strings etc).

As for claim 19, in further view of claim 15, Hoffert suggests “wherein the corresponding node and the link are displayed in other structures than the graphic structure or the tree structure in the region displaying the information on semantic relations between segments, the

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corresponding segment and the segments related to the associate meanings being dynamically converted and displayed when a predetermined segment is selected”, i.e., URL structure, HTML structure, a java script structure, or tables, or lists and other structures are used for representing the semantic relations between segments, see col. 4/lines 31 to col. 5/line 29).

As for claims 20-22, in further view of claim 15, these claims for the steps of “wherein a shift is made to a corresponding segment if each node of a graphic view of information on associate meanings is selected”; “wherein the region displaying the information on associate meanings displays the region displaying the information on associate meanings between segments centering around a segment currently being displayed”; and “wherein the graphic view of information on associate meanings selects a plurality of nodes, and the segments corresponding to the more than one selected node are automatically linked and reproduced” are rejected for the reasons given in the scope of combined claims 12, 14-17 as discussed above.

Regarding claim 23, Hoffert discloses “a method of describing information on relations between segments of a multimedia stream”, i.e., indexing is used as a method of constructing and describing information for video and audio segments with their semantic relations or context relations of a multimedia stream (col. 6/line 18 to col. 7/line 26, and further on col. 14/lines 30-62 for audio segments and col. 21/lines 55-65 for video segments), comprising “describing information on semantic relations between segments including segment locators and description of cause and effect semantic relationships between said located segments based on contents of said located segments”, i.e., a plurality of attributes on cause/effect or on abstract/detail (context relations between segments) as relevant lexical content information related to media file for the

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user to have a meaningful database to search (col. 5/lines 1-29 & col. 6/lines 20-46 & col. 7/line 52 to col. 8/line 8).

As for claim 24, in further view of claim 23, Hoffert further discloses “wherein the segment locator is an information on intervals” (as shown in Figs. 3E & 3H, information intervals are used as segment locators; and tags for video segments are regarding as information intervals for predetermined video segments, see more on col. 21/lines 61-65, col. 22/line 62 –col. 23/line 17).

As for claim 25, in further view of claim 24, Hoffert discloses “wherein the segment locator further comprises information on a stream” (col. 6/lines 20-55 for information is stored on a stream of segments or in a portion of the media file).

As for claim 26, in further view of claim 25, Hoffert suggests “wherein the information on a stream is an information on relative/absolute locations of the stream” (col. 20/line 44-col. 21/line 28 since the locations of frames is determined by a formula with number of frames in  $N \geq 0$  or integer numbers, for instance, the user can select a segment from Frame 15 to Frame 80; therefore, the information on relative/absolute locations of the stream can be determined).

As for claim 27, in further view of claim 25, Hoffert discloses “wherein the information on a stream comprises a unique identifier (ID) for the stream” (col. 6/line 56-col. 7/line 25 as the indexing technique of video and audio files for identifying or locating segments or portions of audio/video files; and col. 25/lines 39-61 for media track IDs).

As for claims 28 and 29, in further view of claim 24, Hoffert discloses “wherein the information on intervals is described as a starting point and an ending point of the segments” and “wherein the information on intervals is described as information on a starting point and a length

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of the segments”, i.e., length and time of the video segments is calculated for a number of frames or an information interval representing a starting frame and an ending frame from  $N=1$  to  $N$  (integer) frames in a predetermined timeframe  $T$  (col. 20/line 44-col. 21/line 28).

As for claim 30, in further view of claim 23, Hoffert discloses further “comprising information on an additional weight value with respect to the cause/effect relationship between the segments so as to order the segments affecting a particular segment or the segments affected by a particular segment” (col. 7/lines 27-51 for additional weight values addressed).

As for claims 31-33, these claims, with same limitations addressed earlier, for a data structure for describing information on relations between segments of a multimedia stream are rejected for the reasons given in the scope of claims 23-26 and 30 as discussed in details above.

### *Conclusion*

**5. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.



6. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9306, (for Technology Center 2600 only)**

*Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krista Kieu-Oanh Bui whose telephone number is (703) 305-0095. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:30 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant, can be reached on (703) 305-4755.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



KRISTA BUI  
PATENT EXAMINER

Krista Bui  
Art Unit 2611  
February 11, 2005